ENGLISH

Datasheet

DPDT Toggle Switch On-On, 5 A, PCB

RS Stock number 734-7025

Specifications:

Contact Rating:	Dependent upon contact material
Mechanical Life:	40,000 make-and-break cycles
Contact Resistance:	10 mΩ max. initial @ 2-4VDC 100mA for both silver and gold plated contacts
Insulation Resistance:	1,000 mΩ min.
Dielectric Strength:	1,000 Vrms min. @ sea level
Operating Temperature:	-30°C to 85°C
Case:	Diallyl Phthalate (DAP) (UL94v-0)
Actuator:	Brass, chrome plated
Bushing:	Brass, nickel plated
Housing:	Stainless steel
Switch Support:	Brass, tin plated
Contact/Terminals:	Brass, silver or gold plated

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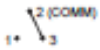
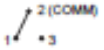
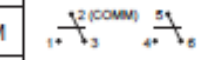
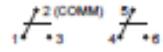
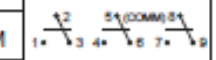
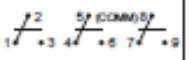
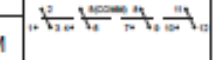
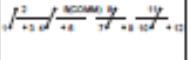
SWITCH FUNCTION

NO. POLES	UL/CSA MODEL NO.	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
			POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
SP	Q1111	1MS1	ON	NONE	ON	2-3	N/A	2-1
	Q1112	1MS2	ON	NONE	MOM			
	Q1113	1MS3	ON	OFF	ON		OPEN	
	Q1114	1MS4	MOM	OFF	MOM			
	Q1115	1MS5	ON	OFF	MOM			
DP	Q1121	1MD1	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4
	Q1122	1MD2	ON	NONE	MOM			
	Q1123	1MD3	ON	OFF	ON		OPEN	
	Q1124	1MD4	MOM	OFF	MOM			
	Q1125	1MD5	ON	OFF	MOM			
	Q1126	1MD6	ON	ON	ON	2-3,5-6	2-3,5-4	2-1,5-4
▲	Q1127	1MD7	MOM	ON	MOM			
▲	Q1128	1MD8	ON	ON	MOM			
3P	Q1131	1M31	ON	NONE	ON	2-3,5-6,8-9	N/A	2-1,5-4,8-7
	Q1132	1M32	ON	NONE	MOM			
	Q1133	1M33	ON	OFF	ON		OPEN	
	Q1134	1M34	MOM	OFF	MOM			
	Q1135	1M35	ON	OFF	MOM			
4P	Q1141	1M41	ON	NONE	ON	2-3,5-6,8-9,11-12	N/A	2-1,5-4,8-7,11-10
	Q1142	1M42	ON	NONE	MOM			
	Q1143	1M43	ON	OFF	ON		OPEN	
	Q1144	1M44	MOM	OFF	MOM			
	Q1145	1M45	ON	OFF	MOM			
	Q1146	1M46	ON	ON	ON	2-3,5-6,8-9,11-12	2-3,5-4,8-9,11-10	2-1,5-4,8-7,11-10
▲	Q1147	1M47	MOM	ON	MOM			
▲	Q1148	1M48	ON	ON	MOM			

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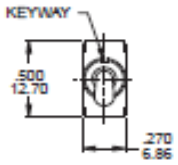
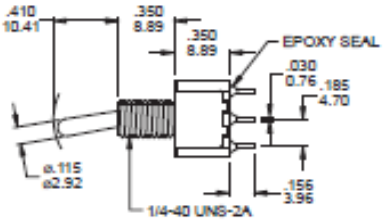
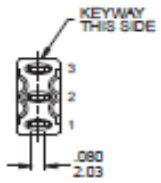
POLE OPTIONS

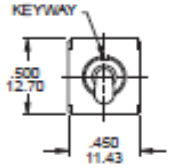


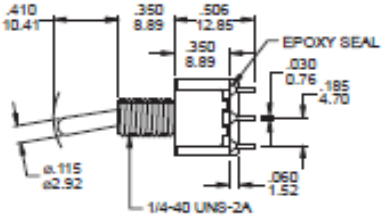


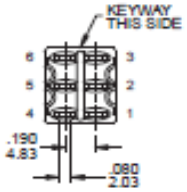


SPDT

Part No. Shown : 1MS1T1B1M1QE

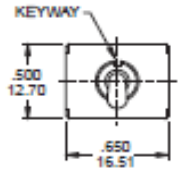


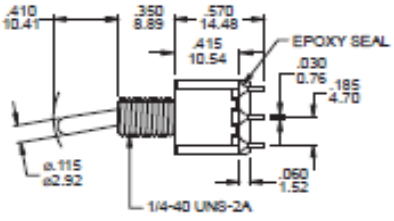


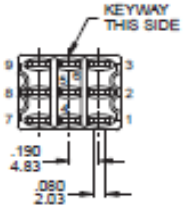


DPDT

Part No. Shown : 1MD1T1B1M1QE







3PDT

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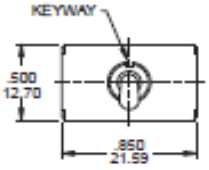

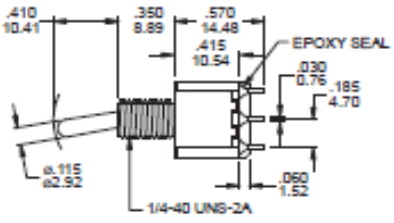

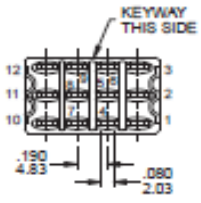

4PDT

Part No. Shown : 1M41T1B1M1QE

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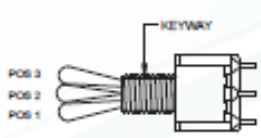
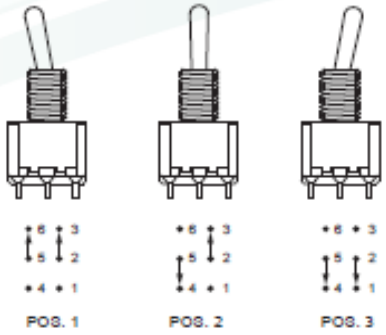
3-WAY SWITCH

3-Way Wiring Diagram Schematics

SINGLE POLE, 3 POSITION

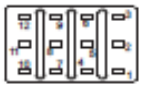
Model No.	POS 1	POS 2	POS 3
1MD6	ON	ON	ON
Term. Comm.	2-3,5-6	2-3,5-4	2-1,5-4

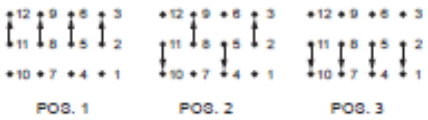




DOUBLE POLE, 3 POSITION

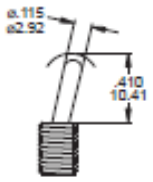
Model No.	POS 1	POS 2	POS 3
1M46	ON	ON	ON
Term. Comm.	2-3,5-6 8-9,11-12	2-3,5-4 8-9,11-10	2-1,5-4 8-7,11-10



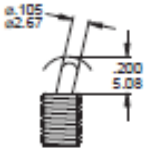


ACTUATOR OPTIONS

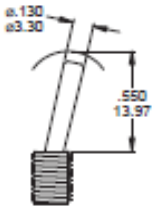
T1 STD



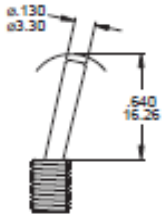
T2



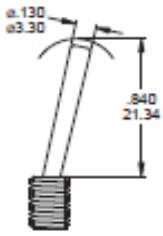
T3



T4

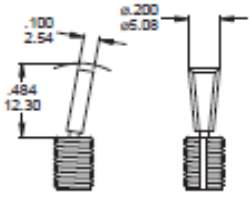


T5

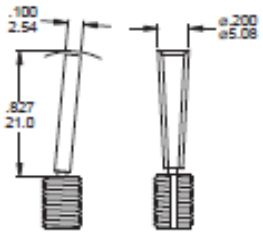


NOTE T1 ~ T5 Actuator shown with standand B1 Bushing :
Add .070 (1.78) for B3 Bushing ;
Subtract .020 (0.51) for B6 Bushing ;
Std for M1 , M2 Terminal sub .016 (0.40) for M6 , M7 , VSX

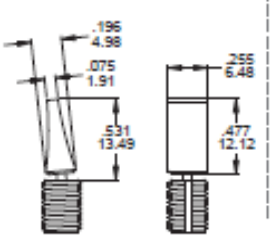
T6 FLATTED WITH ANTIROTATION



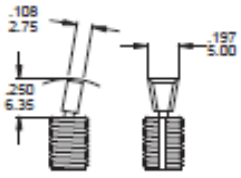
T61



T62



T63



NOTE T6,T6-1,T6-2 ,T63 use with B11, B12, B15, B16 bushing only.

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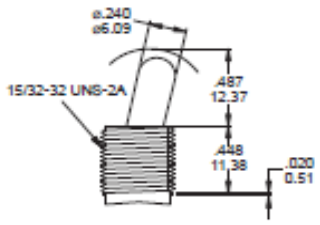
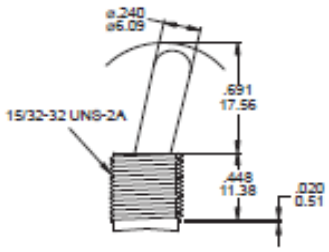
T7



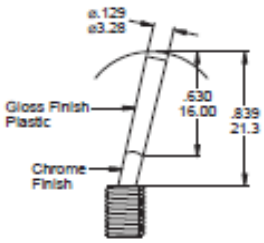
Use with B13 bushing
Use with B18,B20 the lever is antirotation
andthe size of lever is 13.00mm

T8



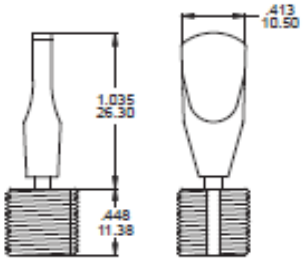
Use with B13 bushing
Use with B18,B20 the lever is antirotation
and the size of lever is 18.00mm

T9



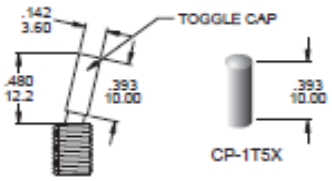
B1 / B2 bushing std
with black and red color only (std.)

TA PLASTIC BLACK



Use with B18 bushing only

T11



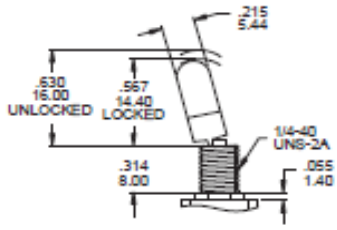
NOTE T11Actuator shown with standand B1 Bushing ;
Add .070 (1.78) for B3 Bushing ;
Subtract .020 (0.51) for B6 Bushing.
Std for M1.M2 Terminal sub .016 (0.40) for M6.M7.V3X

Plastic No.Color :

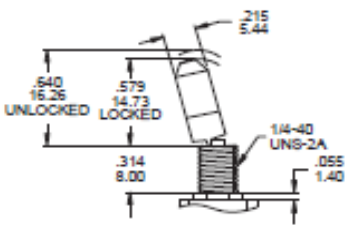
ITEM NO	COLOR
1	White
2	Black (Std)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Grey

T82 , TA , T9 , T11
ACTUATOR ONLY

TL1B25



TL2B25



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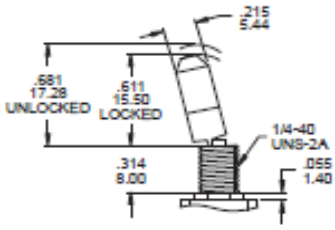
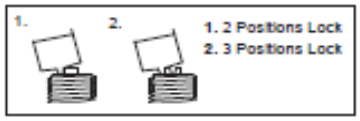
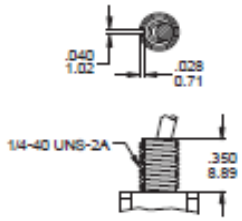


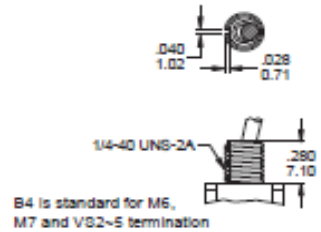


BUSHING OPTIONS

B1 THD STD
B2 NON-THD

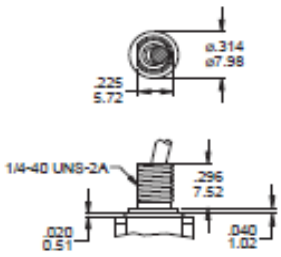


B3 THD
B4 NON-THD



B4 is standard for M6,
M7 and V3.2~5 termination
options.

B5 HIGH TORQUE



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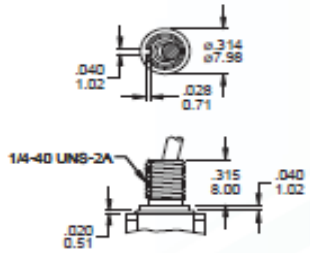
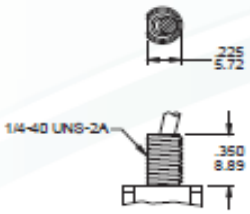
ENGLISH

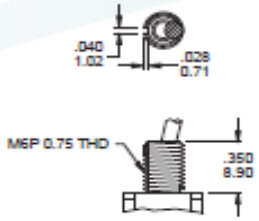
B6 HIGH TORQUE



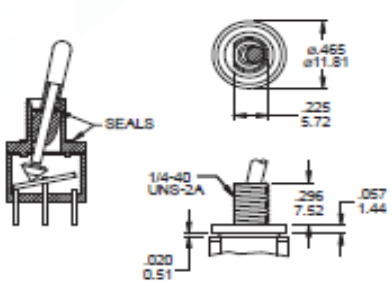
B7 THD STD

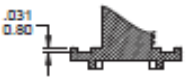


B8 METRIC THD



B9 SPLASH PROOF

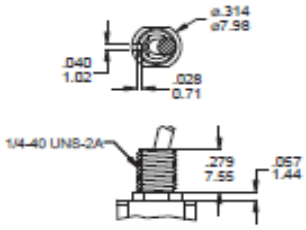




CP-1TEB

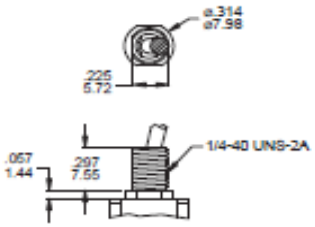
O-Ring
supplied with B9 bushing

B11 THD STD
B12 NON-THD



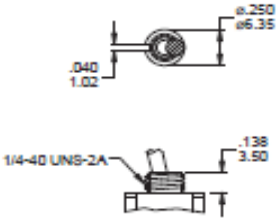
Use with T6 actuators only

B15 THD STD
B16 NON-THD

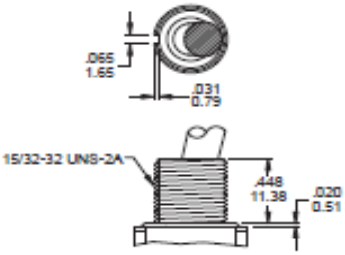


Use with T6 actuators only

B17

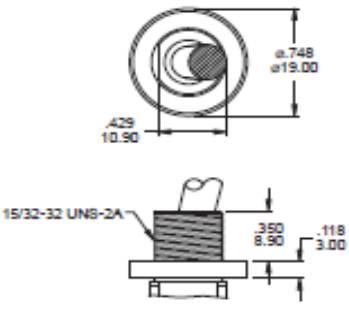


B13



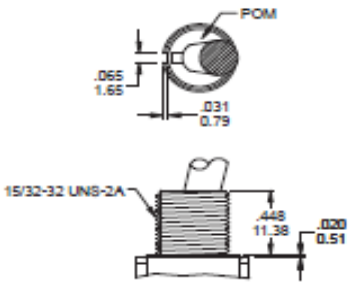
Use with T7,T8 actuators only
B13 Bear strength from top of actuator up to 10kg aside up to 15kg

B14 SPLASH PROOF



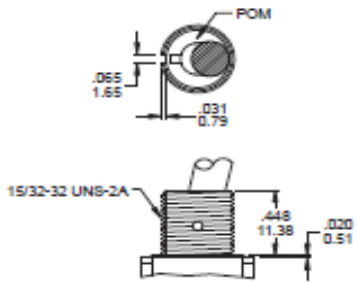
Use with T7 , T8 actuators only

B18



Use with T7,T8 and TA actuators only
with Plastic (POM) Insert

B20



Use with T7,T8 and TA actuators only
with Plastic (POM) Insert

B18 , B20 Bear strength from top of actuator up to 20kg aside up to 15kg

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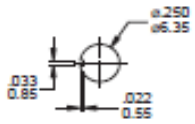
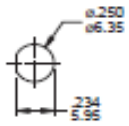
ENGLISH

PANEL MOUNTING

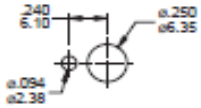
1/4 IN BUSHING



Without locking ring (Keyway)

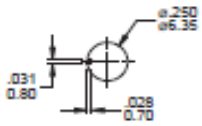


Without locking ring (Flat)

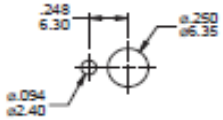


With standard locking ring.

METRIC BUSHING

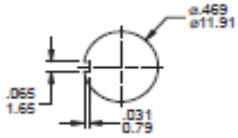


Without locking ring (Keyway)

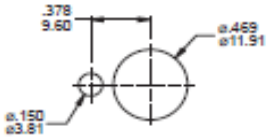


With standard locking ring.

15/32 IN BUSHING

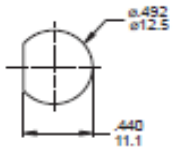


Without locking ring (Keyway)



With standard locking ring.

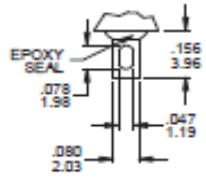
SPLASH PROOF BUSHING



Without locking ring (Flat)

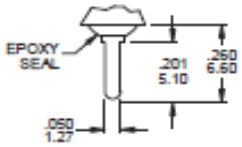
TERMINATION OPTIONS

M1 Solder lug



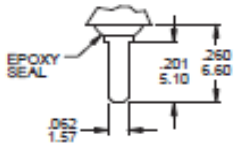
.030(0.76) THK.

M2 PC Thru-hole



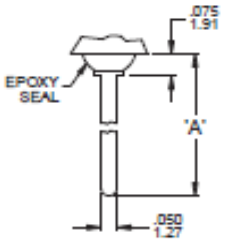
.030(0.76) THK.

M3 Quick connect



.030(0.76) THK.

M5 Wire Wrap



.030(0.76) THK.

OTHER TERMINATION OPTIONS

M6 RIGHT ANGLE P.C. MOUNT

M7 RIGHT ANGLE P.C. MOUNT

VS2 VERTICAL BRACKET P.C. MOUNT

VS3 VERTICAL BRACKET P.C. MOUNT

VS5 VERTICAL BRACKET P.C. MOUNT

OPTION CODE	DIM. 'A'
M5-1	.736 (18.70)
M5-2	.953 (24.20)
M5-3	.415 (10.55)
M5-4	1.062 (26.97)

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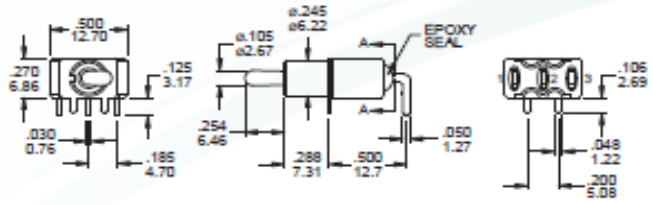
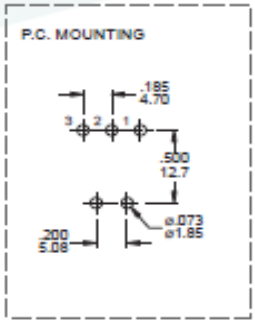
ENGLISH

M6

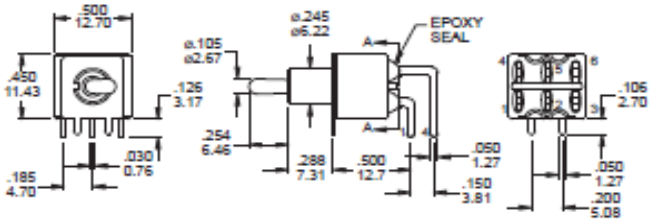


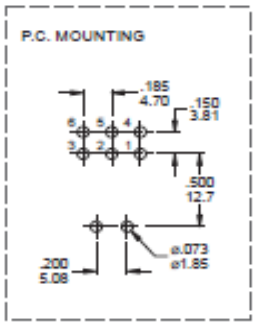


SPDT

Part No. Shown : 1MS1T2B4M6QE

M6

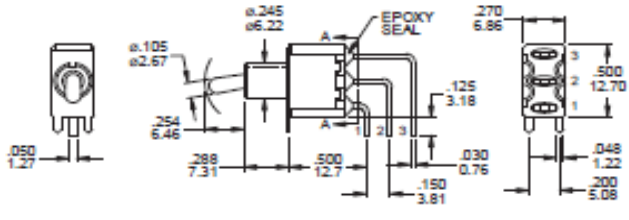


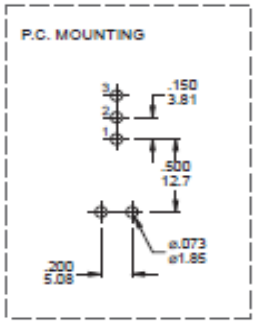


DPDT

Part No. Shown : 1MD1T2B4M6RE

M7

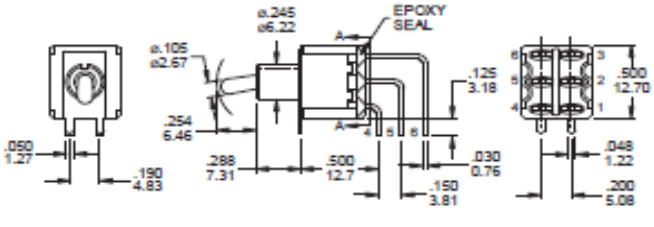


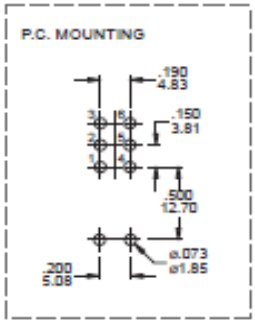


SPDT

Part No. Shown : 1MS1T2B4M7QE

M7





DPDT

Part No. Shown : 1MD1T2B4M7QE

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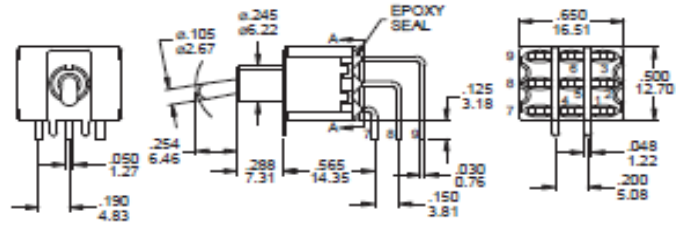
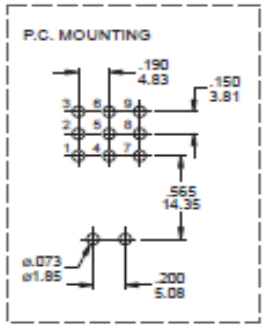
ENGLISH

M7

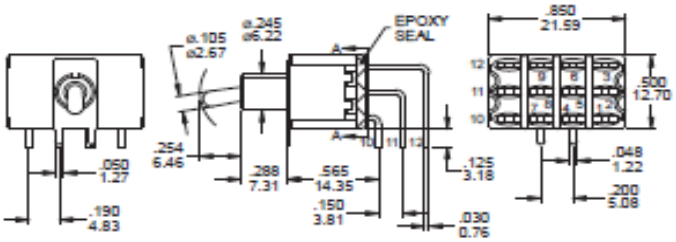


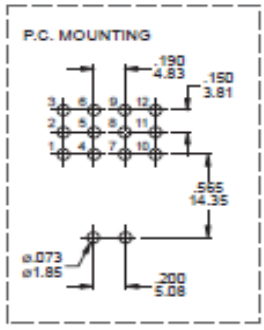


3PDT

Part No. Shown : 1M31T2B4M7QE

M7

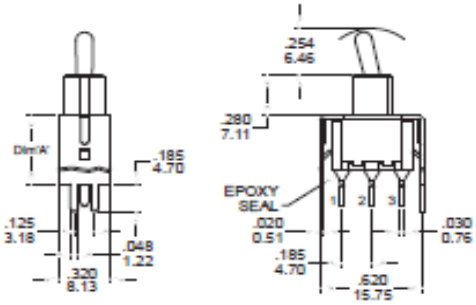




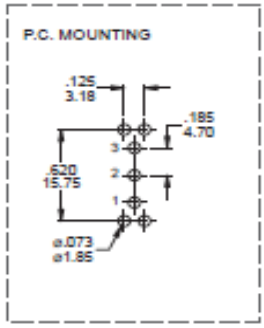
4PDT

Part No. Shown : 1M41T2B4M7QE

VS2 - VS3



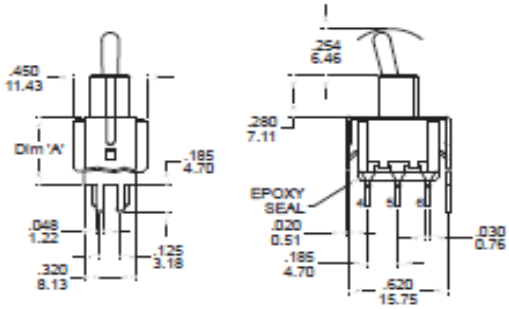
OPTION CODE	DIM. 'A'
VS2	.460 11.68
VS3	.630 16.00



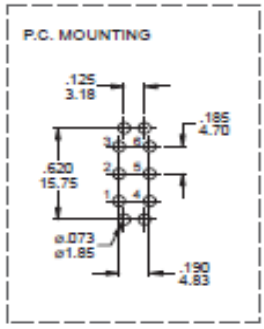
SPDT

Part No. Shown : 1MS1T2B4VS2QE

VS2 - VS3



OPTION CODE	DIM. 'A'
VS2	.460 11.68
VS3	.630 16.00



DPDT

Part No. Shown : 1MD1T2B4VS3QE

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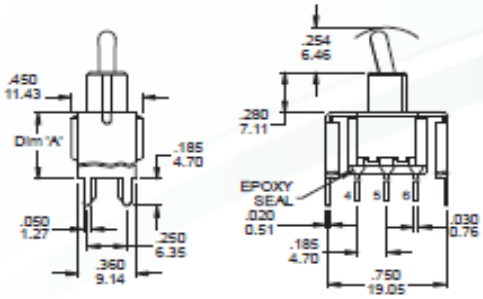
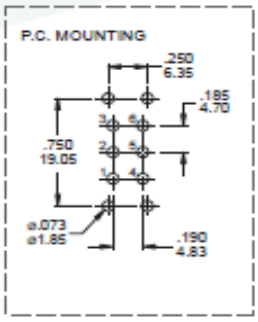
ENGLISH

VS5



OPTION CODE	DIM. 'A'
V84	.460 11.68
V85	.630 16.00



DPDT

Part No. Shown : 1MD1T2B4VS5QE

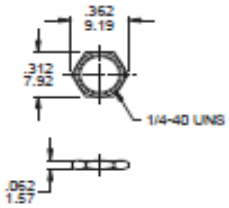
SNAP-IN TERMINATION OPTIONS

M6N

V2N

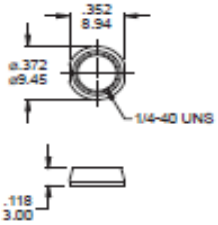
HARDWARE

1/4 NUTS HDW2

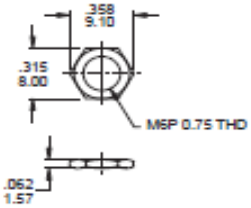


Supplied standard with
B1, B3, B5, B6 and B9 options

DRESS NUT HDW3

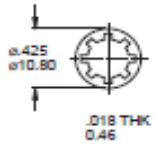


METRIC NUT HDW6



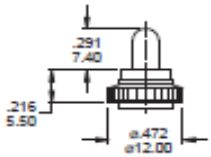
Supplied standard with
B8 metric bushing

LOCK WASHER HDW11



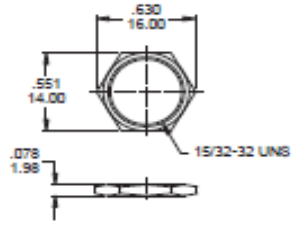
Supplied standard with
B1 / B3 bushing

OPTIONAL RUBBER HOOD SEALING



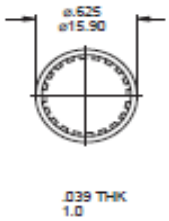
K1=Metric
E1=Inch (Std.)
for actuator T1, T2 and
B1, B3, B5, B6 Bushing only

15/32 NUTS HDW4



Supplied standard with B13 bushing

LOCK WASHER HDW12

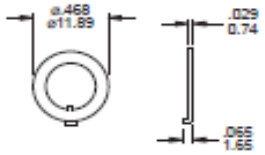


Supplied standard with B13 bushing

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.

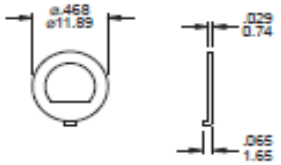
ENGLISH

HDW15



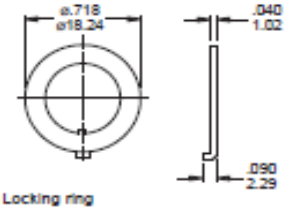
Locking ring supplied standard

HDW16



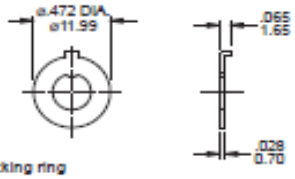
Locking ring
supplied with B5 bushing

HDW17



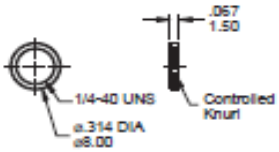
Locking ring
supplied with B13,B18,B20 bushing

HDW18



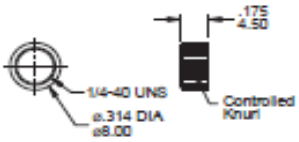
Locking ring
supplied with B8 bushing

HDW19



NU-1M18

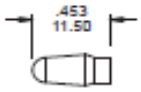
HDW20



NU-1M24

OPTIONAL TOGGLE CAP

CP-T1XX



Use with T1

CAP Color :

ITEM NO	COLOR
1	White
2	Black (Std)
3	Red
5	Yellow
6	Green
7	Blue
9	Gray

CONTACT MATERIAL OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Q = Silver	5 Amps with resistant load @ 120VAC or 28VDC 2 Amps with resistant load @ 250VAC
S		S = Silver,pure - tin	
C	Gold over Silver	C = Gold over silver	
K		K = Gold over silver,pure - tin	
R	Gold	R = Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC)
G		G = Gold,pure - tin	

SOLDERING PROCESSES

MANUAL SOLDERING: Use soldering iron of 30 watts, controlled at 350°C
approximately 5 seconds while applying solder.

WAVE SOLDERING: Recommended Soldering Temperature: 260 ± 5°C
Duration of Solder Immersion: Max 5 sec. (PCB is 1.6mm in thickness)

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